

**LNP™ STAT-KON™ Compound KEL32**

(POM+PTFE)-CF10

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP STAT-KON KEL32 compound is based on Acetal Copolymer (POM) resin containing 10% carbon fiber, 15% PTFE. Added features of this grade include: Electrically Conductive, Internally Lubricated, Wear Resistant.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>8400</b>	MPa	ISO 527
Stress at break	<b>51</b>	MPa	ISO 527
Strain at break	<b>4</b>	%	ISO 527
Flexural modulus	<b>6000</b>	MPa	ISO 178
Izod impact strength, +23°C, 4mm	<b>15</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>5</b>	kJ/m <sup>2</sup>	ISO 180/1A

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>141</b>	°C	ISO 75-1/-2

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Surface Resistivity	<b>10000</b>	Ohm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1510</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Melt temperature	<b>200 - 215</b>	°C	-
Mold temperature	<b>80 - 110</b>	°C	-
Zone 1	<b>175 - 190</b>	°C	-
Zone 2	<b>195 - 205</b>	°C	-
Zone 3	<b>210 - 220</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity